Sample Input Data

Adding Airports

1. Airport Code: JFK
2. Airport Code: LAX
3. Airport Code: ATL
4. Airport Code: ORD
5. Airport Code: DFW
6. Airport Code: DEN
7. Airport Code: SFO
8. Airport Code: SEA

Adding Flights

1. Origin: JFK Destination: LAX Distance: 2475
2. Origin: JFK Destination: ATL Distance: 760
3. Origin: ATL Destination: LAX Distance: 1946
4. Origin: ATL Destination: ORD Distance: 606
5. Origin: ORD Destination: DFW Distance: 802
6. Origin: DFW Destination: DEN Distance: 641
7. Origin: DEN Destination: SFO Distance: 967
8. Origin: SFO Destination: SEA Distance: 679
9. Origin: LAX Destination: SEA Distance: 954
10. Origin: LAX Destination: DFW Distance: 1235
11. Origin: JFK Destination: SFO Distance: 2586

Finding Routes

- Start Airport Code: JFK
- Destination Airport Code: SEA
- Maximum Number of Layovers: 2

Sorting Preference

- Sort by total travel distance: 1
- Sort by number of layovers: 2

Sample Input Sequence

1. Add airport: JFK
2. Add airport: LAX
3. Add airport: ATL
4. Add airport: ORD
5. Add airport: DFW
6. Add airport: DEN
7. Add airport: SFO
8. Add airport: SEA

Add flight:

- Origin: JFK
- Destination: LAX
- Distance: 2475
- Add flight:
- Origin: JFK
- Destination: ATL
- Distance: 760
- Add flight:
- Origin: ATL
- Destination: LAX
- Distance: 1946
- Add flight:
- Origin: ATL
- Destination: ORD
- Distance: 606
- Add flight:
- Origin: ORD
- Destination: DFW
- Distance: 802
- Add flight:
- Origin: DFW
- Destination: DEN
- Distance: 641
- Add flight:
- Origin: DEN
- Destination: SFO
- Distance: 967
- Add flight:
- Origin: SFO
- Destination: SEA
- Distance: 679
- Add flight:
- Origin: LAX
- Destination: SEA
- Distance: 954
- Add flight:
- Origin: LAX
- Destination: DFW
- Distance: 1235
- Add flight:
- Origin: JFK
- Destination: SFO
- Distance: 2586

Find routes:

- Start Airport Code: JFK
- Destination Airport Code: SEA
- Maximum Number of Layovers: 2
- Sort by total travel distance: 1
- Sort by number of layovers: 2

Expected Output

When you run the interactive menu and input the data as described, you should get a list of routes from JFK to SEA sorted by either total travel distance or number of layovers.

The routes might include paths like:

- JFK -> LAX -> SEA
- JFK -> ATL -> LAX -> SEA
- JFK -> ATL -> ORD -> SEA

You can choose the sorting preference after finding the routes to see the sorted output based on either total travel distance or number of layovers.